	INFORMATIONEREFO	7.1
DUNTRY	Germany (Russian Zone)	DATE DISTR. 21 October 1948
JĖJECT	Projects under Way at the Oberspreeters	NAL NO. OF PAGES 2
ACE QUIRED		NO. OF ENCLS. (LISTED BELOW)
TE CF		SUPPLEMENT TO 50X1-HUM REPORT NO.
ITED BY LAW.	Z. AS ANERDED. 115 IMANSHIDSION OR THE REVELLION PO	TED INFORMATION FOR THE RESEARCH AINED INTELLIGENCE ANALYSTS 50X1-HUM
1.	Further development of an electrolytic ampere hour meter for submarine storage batteries:	
	a. This instrument, which was used by the Ger the Russiens, is the subject of experiment was employed by a Soviet AG which was rece to join the Oberspreewerk's image tube dep of the iconoscope development attlined in t	etion by Dr. Eckard. Eckard intly dissolved, and is scheduled partment. He will take charge
	b. Development of the meter had been stopped The principal problem involved was the ter measuring system.	as of the beginning of July 1948. perature factory as it affected the
	c. The principle behind the operation of the phosphoric acid and the observation of the process.	
	The electrodes consist of nets covered wit off the actual electrolytic bath. While t	hese nets are water-tight, the le to seep through. Upon the
	gas which is given off from the bath is at reversal of the current (charging), the pl catalytically the following combustion: 2	atimum on the electrodes effects H2402 = 2H20
	reversal of the current (charging); the pl	H2402 = 2H20 on in a chamber;
2.	reversal of the current (charging); the pl catalytically the following combustion: 2 A constant temperature was attained a. Through the measurement of gas expansi	on in a chamber; e tension-dividing resistor. the program which had been planned
2.	reversal of the current (charging), the pl catalytically the following combustion: 2 A constant temperature was attained a. Through the measurement of gas expansi b. Through temperature compensation in the A conference was held in July 1948 to discuss	H2402 = 2H20 on in a chamber; the tension-dividing resistor. the program which had been planned 50X1-HUM
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2.	reversal of the current (charging); the pleatalytically the following combustion: 2 A constant temperature was attained a. Through the measurement of gas expansib. Through temperature compensation in the A conference was held in July 1948 to discuss for the image tube division for 1949/50.	on in a chamber; the tension-dividing resistor. the program which had been planned 50X1-HUM
STATE ARMY	reversal of the current (charging), the pl catalytically the following combustion: 2 A constant temperature was attained a. Through the measurement of gas expansi b. Through temperature compensation in the A conference was held in July 1948 to discuss	on in a chamber; the tension-dividing resistor. the program which had been planned 50X1-HUM

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CENTRAL INTELLIQUICE AGENCY

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The following items were discussed:

a. High-efficiency oscillograph tube; target date 1949; 100,000 km./sec. recording speed (former limit: 50,000 km./sec.);
b. Granlicht-Filmabtaster (10-inch viewing tube);

- c. Projector tube; picture dimensions: 2.5 x 2.5m; a shortege of smelting metal is holding up production. No decision was reached on the question of developing a small 20 kv home projector, similar to the Arnstadt model.
- 3. Six thousand seven-inch image tubes are scheduled for production by the end of 1948. Glass components are being manufactured at Glashmitte Weisswasser (Coram), but that plant is being gravely overworked. Steinbach (Leuchstoff AG) has been unable to supply the yellow components (N2 yellow/2) for luminous agents. The new supplier, Auergesellschaft, Berlin N 65, is making experiments in the production of yellow luminous substances, but thus far the crystals have turned out to be too coarse. They cannot, furthermore, be mixed with N 1 blue/1 because of its white light. The principal current 50X1-HUM bottleneck is the chortage of cadmium. Fifteen kg. are needed. and Auergesellschaft is attempting to procure the metal
- 4. Discharge tube development is under the supervision of Dr. Thouret, previously of Osram. Mercury high-pressure tubes of the following types are currently being produced:

100 W 30 Att 200 W 70 " 30 " 1 KW 30-40 Att 2 KW 30-40 Ath, quartz bulbs 5 KW in process of development

The productive capacity of the quartz processing plant is low. Also in production are 40 W, 1.5 Att spectral lamps, sodium vapor lamps, both of the Edison type, and low-pressure nercury tubes.

- Neon lights for airfield illumination are being produced by the Oberspreewerk at the rate of 50 to 70 per month. Verious components are being produced by the Pintsch firm, Berlin. The lights, which consist of soft glass tubes, .9m. long and 40 to 50 mm. in diameter, are housed in tubes of harder glass.
- Light bulbs (Blitzlampen): T = 0.002-3 sec; voltage = 4,000 volts; current ≤ 1,000 Amps. These will be used for anti-aircraft searchlights. Their light intensity will be greater than that of the sun's. They will consist of quartz tubes c. one meter in length, 20mm. in diameter, which will be filled with krypton. Electrodes will be of pure tungsten.

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